

Title (en)  
Image decoder

Title (de)  
Bilddekodierer

Title (fr)  
Décodeur d'image

Publication  
**EP 2257071 A1 20101201 (EN)**

Application  
**EP 10174595 A 19971106**

Priority  
• EP 97911461 A 19971106  
• JP 29473796 A 19961107

Abstract (en)  
It is hereby disclosed an image decoding method for block-wise decoding a coded image signal obtained by coding a digital image divided into a plurality of blocks, wherein each block is a two-dimensional block having a plurality of pixels, the coded image signal including coded mode information obtained by coding a coding mode of a target block and coded block data obtained by coding pixel data of the target block using a coding mode showing a status of pixels of the target block indicated by the mode information for the target block, the method decoding each block as a target block by applying the steps of: separating (81) the coded mode information of the target block and the coded block data of the target block from the coded image signal (15); and decoding (83) the coded block data (14) of the target block, using the mode information (12) of the target block, to recover pixel data of the target block, characterized by decoding (82) the coded mode information (13) on a per target block basis, by decoding the coded mode information of a target block using the mode information of a plurality of previously decoded blocks, each of which is adjacent to the target block within the same picture. Also the corresponding image decoder is hereby disclosed.

IPC 8 full level  
**G06T 9/00** (2006.01); **H04N 1/417** (2006.01); **H04N 7/26** (2006.01); **H04N 7/30** (2006.01); **H04N 7/34** (2006.01); **H04N 19/593** (2014.01)

CPC (source: EP KR US)  
**H04N 7/24** (2013.01 - KR); **H04N 19/157** (2014.11 - EP US); **H04N 19/176** (2014.11 - EP US); **H04N 19/196** (2014.11 - EP US); **H04N 19/46** (2014.11 - EP US); **H04N 19/463** (2014.11 - EP US); **H04N 19/593** (2014.11 - EP US); **H04N 19/13** (2014.11 - EP US); **H04N 19/60** (2014.11 - EP US); **H04N 19/91** (2014.11 - EP US)

Citation (search report)  
• [I] US 5524067 A 19960604 - MIYAKE HIDETAKA [JP], et al  
• [A] EP 0720379 A2 19960703 - CANON KK [JP]  
• [A] EP 0491556 A2 19920624 - CANON KK [JP]  
• [A] EP 0357388 A2 19900307 - CANON KK [JP]  
• [A] JP S59181777 A 19841016 - FUJITSU LTD  
• [A] "Video Verification Model Version 4.0", ITU STUDY GROUP 16 - VIDEO CODING EXPERTS GROUP -ISO/IEC MPEG & ITU-T VCEG(ISO/IEC JTC1/SC29/WG11 AND ITU-T SG16 Q6), XX, XX, no. N1380, 3 October 1996 (1996-10-03), XP030010278  
• [A] TODD S ET AL: "PARAMETER REDUCTION AND CONTEXT SELECTION FOR COMPRESSION OF GRAY-SCALE IMAGES", BRITISH JOURNAL OF PHOTOGRAPHY, TIMOTHY BENN PUBLISHING, LONDON, GB, vol. 29, no. 2, 1 March 1985 (1985-03-01), pages 188 - 193, XP000563279, ISSN: 0007-1196  
• [A] "Facsimile coding schemes and coding control functions for group 4 facsimile apparatus; T.6 (11/88)", ITU-T STANDARD IN FORCE (I), INTERNATIONAL TELECOMMUNICATION UNION, GENEVA, CH, no. T.6 (11/88), 25 November 1988 (1988-11-25), XP017403551  
• [A] THOMAS R GARDOS ET AL: "S4: Proposal for modification to alpha channel coding", ITU STUDY GROUP 16 - VIDEO CODING EXPERTS GROUP -ISO/IEC MPEG & ITU-T VCEG(ISO/IEC JTC1/SC29/WG11 AND ITU-T SG16 Q6), XX, XX, no. M1125, 2 July 1996 (1996-07-02), XP030030519

Designated contracting state (EPC)  
DE ES FR GB IT

DOCDB simple family (publication)  
**EP 0876058 A1 19981104**; **EP 0876058 A4 20010307**; AU 4884397 A 19980529; CN 100512438 C 20090708; CN 100534185 C 20090826; CN 1164120 C 20040825; CN 1225777 A 19990811; CN 1568013 A 20050119; CN 1697522 A 20051116; CN 1697522 B 20101124; CN 1882090 A 20061220; CN 1882091 A 20061220; CN 1897700 A 20070117; EP 1689188 A2 20060809; EP 1689188 A3 20081210; EP 1689189 A2 20060809; EP 1689189 A3 20081210; EP 1689190 A2 20060809; EP 1689190 A3 20081210; EP 1689191 A2 20060809; EP 1689191 A3 20081210; EP 1689194 A2 20060809; EP 1689194 A3 20081210; EP 2257070 A1 20101201; EP 2257070 B1 20120905; EP 2257071 A1 20101201; EP 2257071 B1 20120822; KR 100332175 B1 20020412; KR 100332176 B1 20020412; KR 100332177 B1 20020412; KR 100354799 B1 20021118; KR 100425613 B1 20040401; KR 100425614 B1 20040401; KR 100425615 B1 20040401; KR 19990077081 A 19991025; KR 20030096441 A 20031231; KR 20030096442 A 20031231; KR 20030096443 A 20031231; SG 93920 A1 20030121; US 2001022855 A1 20010920; US 2001022856 A1 20010920; US 2002037108 A1 20020328; US 2002037109 A1 20020328; US 2002037110 A1 20020328; US 2002037112 A1 20020328; US 2002044694 A1 20020418; US 6345121 B1 20020205; US 6560363 B2 20030506; US 6567555 B2 20030520; US 6608939 B2 20030819; US 6658152 B2 20031202; US 6681048 B2 20040120; US 6697527 B2 20040224; US 6798916 B2 20040928; WO 9820680 A1 19980514

DOCDB simple family (application)  
**EP 97911461 A 19971106**; AU 4884397 A 19971106; CN 200410063261 A 19971106; CN 200410063262 A 19971106; CN 200610099761 A 19971106; CN 200610099762 A 19971106; CN 200610099763 A 19971106; CN 97191584 A 19971106; EP 06010308 A 19971106; EP 06010309 A 19971106; EP 06010310 A 19971106; EP 06010311 A 19971106; EP 06010312 A 19971106; EP 10174594 A 19971106; EP 10174595 A 19971106; JP 9704034 W 19971106; KR 19980705216 A 19980707; KR 20017008390 A 20010629; KR 20017008391 A 20010629; KR 20017008392 A 20010629; KR 20017008393 A 20010629; KR 20017008394 A 20010629; KR 20017008395 A 20010629; SG 200102601 A 19971106; US 12801 A 20011204; US 13101 A 20011204; US 16101 A 20011204; US 2234101 A 20011220; US 7801 A 20011204; US 85963601 A 20010518; US 86326201 A 20010524; US 9192298 A 19980625